

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of cooling a space or living beings within the space, the space to be cooled defined at least in part by existing substantially rigid, structural tubular elements having primary functions unrelated to transport of cooling liquid ~~but including~~, at least one ~~substantially rigid, elongated tubular element defining~~ of said structural tubular elements containing a substantially liquid-tight passage, comprising:

a) mounting at least one misting nozzle in said structural tubular element; and

b) supplying liquid under pressure to flow through said ~~existing substantially~~ liquid-tight passage so that the liquid is emitted through said nozzle as a mist directly into the space to be cooled to thereby evaporatively cool the space or living beings within the space.

2. (Currently Amended) A method as recited in claim 1 wherein a) and b) are practiced using a hollow substantially rigid canopy frame component on a watercraft as the substantially rigid ~~elongated~~ structural tubular element.

3. (Currently Amended) A method as recited in claim 1 wherein a) and b) are practiced using a hollow substantially rigid rail or supporting frame on a watercraft as the substantially rigid ~~elongated~~ structural tubular element.

4. (Original) A method as recited in claim 1 wherein b) is practiced by supplying fresh water under a pressure of between about 200-1000 psi.

5. (Original) A method as recited in claim 1 wherein a) and b) are practiced to provide a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns in the space,

6-7. (Canceled)

8. (Original) A method as recited in claim 4 wherein a) and b) are practiced to provide a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns in the space.

9. (Currently Amended) A method of cooling a space, or humans within the space, on a watercraft in an aesthetically acceptable manner, by a) supplying fresh water through a substantially rigid, elongated structural element of the watercraft to a plurality of nozzles mounted in said ~~structure~~ structural element, said structural element having a primary function unrelated to supplying water; and b) directly misting the fresh water into the space through said plurality of nozzles as a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns.

10. (Previously Presented) A method as recited in claim 9 wherein a) is practiced by supplying the water through said plurality of nozzles at a pressure of between about 200-1000 psi, and so that the source of the fresh water is not readily visible in the space.

11. (Previously Presented) A method as recited in claim 10 wherein a) is practiced to direct the mist downwardly into a space covered by a canopy on a deck portion of the watercraft, and wherein said structural element comprises one or more hollow substantially rigid and water-tight frame elements supporting the canopy.

12. (Previously Presented) A method as recited in claim 10 wherein, when in the space the temperature is above 80 degrees F and the relative humidity is above 80%, a) is further practiced by chilling the water to a temperature between about 33-50 degrees F, and misting the chilled water into the space.

13. (Canceled)

14. (Currently Amended) A method as recited in claim 10 wherein said structural element comprises a ~~substantially rigid~~ hollow rail or superstructure frame element of the watercraft and a) is practiced by supplying mist from a said plurality of nozzles mounted in said frame element.

15. (Currently Amended) A misting system for supplying a mist of liquid into a space to cool the space or living beings within the space, comprising:

a substantially rigid, tubular element, a primary function of which is to structurally define at least a portion of the space but which is also ~~adapted to transport~~ capable of transporting liquid to be misted through a substantially water tight passage in said element directly into the space;

a nozzle operatively connected to the substantially rigid water tight passage and positioned to supply a mist of liquid from [the passage-containing element] said passage directly into the space; and

a source of liquid under super-atmospheric pressure operatively connected to the substantially rigid, tubular element.

16. (Original) A system as recited in claim 15 mounted on a watercraft to supply a mist of liquid directly toward a deck portion of the watercraft.

17. (Currently Amended) A system as recited in claim 16 wherein the substantially rigid tubular element comprises a component of a frame for supporting a canopy, a rail, a superstructure frame element, or a light fixture on the watercraft.

18. (Original) A system as recited in claim 15 wherein said nozzle has at least one orifice with a diameter of between about 0.2-0.5 mm.

19. (Previously Presented) A system as recited in claim 18 wherein said source of liquid under super-atmospheric pressure comprises a source of fresh water at a pressure of between

about 200-1000 psi, and operatively connected through a regulator to said substantially rigid, tubular element.

20-26. (Canceled)

27. (Previously Presented) A misting system comprising:

a substantially rigid and liquid-tight hollow element capable of withstanding at least 100 psi of liquid flowing therein;

at least one internally threaded opening formed in said element and having a land;

a misting nozzle having an orifice-containing end and a conduit end, said conduit end having a shaft and a ledge, said shaft including an externally threaded portion dimensioned and configured to be screwed threaded into said at least one internally threaded opening;

said misting nozzle externally threaded portion directly operatively engaging said internally threaded opening;

a seal operatively disposed between said land and said ledge; and

wherein said orifice-containing end of said nozzle has at least one orifice with a diameter of between about 0.2-0.5 mm.

28. (Original) A system as recited in claim 27 further comprising a source of fresh water at a pressure of between about 200-1000 psi, and operatively connected through a regulator to said hollow element.

29. (Original) A system as recited in claim 28 wherein said hollow element comprises a boat canopy frame element, a boat rail, or a boat superstructure element, and wherein said nozzle is positioned to mist water toward a deck area of a boat mounting said hollow element.

30. (Original) A system as recited in claim 29 further comprising a plurality of said nozzles operatively connected to said hollow element, each nozzle supplying a mist of water

PAVLIK  
Appl. No. 10/678,173  
November 14, 2005

droplets having a maximum cross-sectional dimension of between about 5-100 microns toward said boat deck.

31. (Canceled)